BBA

Lipids and Lipid Metabolism

Vol. 1083, 1991

Cumulative Contents

Review

Prostaglandin endoperoxide synthase: structure and catalysis
W.L. Smith and L.J. Marnett (U.S.A.) 1

Regular Papers

Metabolic conversion of six steroid hormones by human plasma high-density lipoprotein
D.E. Leszczynski and R.M. Schafer (U.S.A.) 18

Retroconversion and Δ^4 desaturation of docosatetraenoate (22 : 4(n − 6)) and docosapentaenoate (22 : 5(n − 3)) by human cells in culture
M.D. Rosenthal, M.C. Garcia, M.R. Jones and H. Sprecher (U.S.A.) 29

C_{20} polyunsaturated fatty acids and phorbol myristate acetate enhance agonist-stimulated synthesis of 1-radyl-2-acetyl-*sn*-glycero-3-phosphocholine in vascular endothelial cells
M.C. Garcia, H.W. Mueller and M.D. Rosenthal (U.S.A.) 37

Dietary fat saturation in rhesus monkeys affects LDL concentrations by modulating the independent production of LDL apolipoprotein B
P. Khosla and K.C. Hayes (U.S.A.) 46

Shedding of human neuroblastoma gangliosides
R. Li and S. Ladisch (U.S.A.) 57

Effect of fat pre-feeding on bile flow and composition in the rat
R. Knox, I. Stein, D. Levinson, P. Tso and C.M. Mansbach, II (U.S.A.) 65

Localization and regulation of epidermal 3-hydroxy-3-methylglutaryl-coenzyme A reductase activity by barrier requirements
E. Proksch, P.M. Elias and K.R. Feingold (U.S.A.) 71

Purification and characterization of rabbit platelet cytosolic phospholipase A_2
D.K. Kim, I. Kudo and K. Inoue (Japan) 80

Catalytic properties of human platelet 12-lipoxygenase as compared with the enzymes of other origins
T. Hada, N. Ueda, Y. Takahashi and S. Yamamoto (Japan) 89

Cholesterol stimulation of HDL binding to human endothelial cells EAhy 926 and skin fibroblasts: evidence for a mechanism independent of cellular metabolism
F. Bernini, S. Bellosta, A. Corsini, F.M. Maggi, R. Fumagalli and A.L. Catapano (Italy) 94

Rapid kidney changes resulting from glycosphingolipid depletion by treatment with a glucosyltransferase inhibitor
G.S. Shukla, A. Shukla, J.-i. Inokuchi and N.S. Radin (U.S.A., Japan) 101

Milk lipid digestion in the neonatal dog: the combined actions of gastric and bile salt stimulated lipases
S.J. Iverson, C.L. Kirk, M. Hamosh and J. Newsome (U.S.A.) 109

Review

Prostaglandin endoperoxide synthase: regulation of enzyme expression
D.L. DeWitt (U.S.A.) 121

Regular Papers

Butyrobetaine is equal to L-carnitine in elevating L-carnitine levels in rats
A. Sandor (Hungary) 135

Distribution of apolipoprotein E between free and A-II complexed forms in very-low- and high-density lipoproteins: functional implications
I. Borghini, R.W. James, M.-C. Blatter and D. Pometta (Switzerland) 139

Estradiol increases the secretion of hepatic lipase by rat hepatocyte cultures
N. Emmison, V.A. Zammit and L. Agius (U.K.) 147

Metabolism of cholesterol, phosphatidylethanolamine and stearylamine analogues of G_{M1} ganglioside by rat glioma C6 cells
T. Pacuszka and P.H. Fishman (U.S.A.) 153

Identification, isolation and characterization of tetracosapolyenoic acids in lipids of marine coelenterates
M.V. Vysotskii and V.I. Svetashev (U.S.S.R.) 161

continued

Cholate separates the catalytic and malonyl-CoA-binding components of carnitine palmitoyltransferase from liver outer mitochondrial membranes
I. Ghadiminejad and D. Saggerson (U.K.) 166

Regulation of chylomicron remnant uptake in the human hepatoma cell-line Hep G2. Role of the low-density lipoprotein receptor
Q. Chen, C.-H. Florén, Å. Nilsson and R. Infante (Sweden, France) 173

Occurrence of ceramide digalactoside as the main glycosphingolipid in the marine sponge *Halichondria japonica*
A. Hayashi, Y. Nishimura and T. Matsubara (Japan) 179

γ-Linolenic acid dietary supplementation can reverse the aging influence on rat liver microsome Δ^6-desaturase activity
P.L. Biagi, A. Bordoni, S. Hrelia, M. Celadon and D.F. Horrobin (Italy, U.K.) 187

Soybean lipoxygenase catalysed oxygenation of unsaturated fatty acid encapsulated in cyclodextrin
N. Jyothirmayi and C.S. Ramadoss (India) 193

Reactive properties of the organic solvent-soluble lipase
W. Tsuzuki and T. Suzuki (Japan) 201

Glycero-3-phosphate is a precursor of glucose but not of glycero-3-phosphocholine in rat liver
W. Thompson and H. Belina (Canada) 207

Rat liver and lung mitochondria do not incorporate radioactivity from glycerol-3-phosphate or CDP-choline into glycero-3-phosphocholine
R.A.W. Veldhuizen, W. Thompson and F. Possmayer (Canada) 211

Report

Activation of hepatic lipase catalyzed phosphatidylcholine hydrolysis by apolipoprotein E
T. Thuren, P. Sisson and M. Waite (U.S.A.) 217

Regular Papers

Effect of coconut oil on plasma apo A-I levels in WHHL and NZW rabbits
T.L. Carlson and B.A. Kottke (U.S.A.) 221

Native low-density lipoproteins stimulate leukotriene B_4 production by human monocyte-derived macrophages
F. Nigon, M. Rouis, S.J. Foster and M.J. Chapman (France, U.K.) 230

Phospholipid composition of rat megakaryocytes and its rearrangement in platelets
M. Masuda, I. Kudo, M. Naito, H. Mizushima and K. Inoue (Japan) 235

Membrane fatty acid composition and endothelial cell functional properties
R.C.R.M. Vossen, M.C.E. Van Dam-Mieras, P.J.M.R. Lemmens, G. Hornstra and R.F.A. Zwaal (The Netherlands) 243

Ontogeny of surfactant apoprotein D, SP-D, in the rat lung
Y. Ogasawara, Y. Kuroki, M. Shiratori, H. Shimizu, K. Miyamura and T. Akino (Japan) 252

Effects of hyperlipidemias in hamsters on lipid transfer protein activity and unidirectional cholesteryl ester transfer in plasma
D.W. Quig, C.M. Arbeeny and D.B. Zilversmit (U.S.A.) 257

Effect of hyper- and hypothyroidism on phospholipid fatty acid composition and phospholipases activity in sarcolemma of rabbit cardiac muscle
G. Szymańska, S. Pikuła and J. Zborowski (Poland) 265

Liposome formation from synthetic polyhydroxyl lipids
T.P. Assadullahi, R.C. Hider and A.J. McAuley (U.K.) 271

Changes in the content and intracellular distribution of coenzyme Q homologs in rabbit liver during growth
T. Matsura, K. Yamada and T. Kawasaki (Japan) 277

The effect of pancreatic procolipase and colipase on pancreatic lipase activation
A. Larsson and C. Erlanson-Albertsson (Sweden) 283

Unstable amplification of the chromosomal gene for 3-hydroxy-3-methylglutaryl coenzyme A reductase in compactin-resistant CR200 cells
K. Hasumi, S. Naganuma, Y. Sato and A. Endo (Japan) 289

Effect of fish oil and coconut oil diet on the LDL receptor activity of rat liver plasma membranes
A. Tripodi, P. Loria, M.A. Dilengite and N. Carulli (Italy) 298

Immunochemical and biochemical studies of fatty acid oxidation in fibroblasts of Zellweger and X-linked adrenoleukodystrophy patients
F.A.G. Reubsaet, J.H. Veerkamp, M.L.P. Brückwilder, J.M.F. Trijbels, T. Hashimoto and L.A.H. Monnens (The Netherlands, Japan) 305

Report

Insulin-like effect of vanadate on malic enzyme and glucose-6-phosphate dehydrogenase activities in streptozotocin-induced diabetic rat liver
S. Pugazhenthi, R.L. Khandelwal and J.F. Angel (Canada) 310

Author Index 315